

AMENDMENTS TO THE CLAIMS

Please replace all prior versions of the claims with the following claim listing:

Claims:

1. (Currently Amended) A system comprising:
a threshold detector circuit;
a first switching circuit for enabling access to a back-up power source, the first switching circuit comprising at least a first transistor; and
an inverting switch coupled between the first switching circuit and the threshold detector circuit, the inverting switch comprising an input and an output, the inverting switch configured to receive a signal at the input, invert the signal, and provide the inverted signal at the output, the inverting switch further configured to provide a switching delay during an on-to-off transition at the output;
wherein the threshold detector circuit is configured to cause the first switching circuit to enable access to the back-up power source responsive to a voltage provided by a primary power source dropping below a predetermined threshold.
2. (Currently Amended) The system of claim 1, further comprising:
a second switching circuit for enabling access to [[a]] the primary power source, the second switching circuit comprising at least one transistor.
3. (Currently Amended) The system of claim 2, wherein the threshold detector circuit is configured to cause the second switching circuit to enable access to the second primary power source responsive to a voltage provided by [[a]] the primary power source rising above the predetermined threshold.
4. (Canceled)
5. (Currently Amended) The system of claim [[4]] 1, wherein the inverting switch comprises at least one transistor.

6. (Currently Amended) The system of claim [[4]] 1, further comprising:
an inverter coupled between the inverting switch and the threshold detector
circuit.
7. (Original) The system of claim 6, wherein the inverter comprises a
comparator.
8. (Original) The system of claim 1, wherein the first switching circuit
comprises a second transistor coupled to the first transistor.
9. (Original) The system of claim 8, wherein an emitter of the first transistor
is coupled to a collector of the second transistor.
10. (Currently Amended) The system of claim 9, wherein current flow
between ~~respective collectors and emitters of~~ the first and second transistors terminates
access to the back-up power source.
11. (Currently Amended) The system of claim 9, wherein resistance to current
flow between ~~respective collectors and emitters of~~ the first and second transistors enables
access to the back-up power source.
- 12-17. (Canceled)
18. (Currently Amended) A system comprising:
a threshold detector circuit;
a first switching circuit for enabling access to a back-up power source, the first
switching circuit comprising at least a first transistor;
a second switching circuit for enabling access to a primary power source, the
second switching circuit comprising at least one transistor;

an inverting switch coupled between the first switching circuit and the threshold detector, the inverting switch configured to provide a delayed-off output during an off-to-on transition at an input of the inverting switch; and

an inverter coupled between the inverting switch and the threshold detector circuit;

wherein the threshold detector circuit is configured to cause the first switching circuit to enable access to the back-up power source responsive to a voltage provided by [[a]] the primary power source dropping below a predetermined threshold; and

wherein the threshold detector circuit is configured to cause the second switching circuit to enable access to the ~~second~~ primary power source responsive to a voltage provided by [[a]] the primary power source rising above the predetermined threshold.

19-20. (Canceled)

21. (Currently Amended) ~~The system of claim 1,~~ A system comprising:

a threshold detector circuit;

a first switching circuit for enabling access to a back-up power source, the first switching circuit comprising at least a first transistor; and

an inverting switch coupled between the first switching circuit and the threshold detector circuit;

wherein the threshold detector circuit is configured to cause the first switching circuit to enable access to the back-up power source responsive to a voltage provided by a primary power source dropping below a predetermined threshold;

wherein the threshold detection circuit further comprises:

a comparator having a first input connection for receiving a first input voltage, a second input connection for receiving a second input voltage, and an output connection for providing an output voltage;

a first branch including a first resistor and a first capacitor that are coupled in series between the first input connection and the output connection; and

a second resistor that is coupled between the first input connection and the output connection, and that is coupled in parallel to the ~~series of first resistor and the first capacitor~~ first branch.

22. (Canceled)

23. (New) The system of claim 18, wherein the inverting switch comprises at least one transistor.

24. (New) The system of claim 18, wherein the inverter comprises a comparator.

25. (New) The system of claim 18, wherein the first switching circuit comprises a second transistor coupled to the first transistor, an emitter of the first transistor coupled to a collector of the second transistor.

26. (New) The system of claim 25, wherein current flow between the first and second transistors terminates access to the back-up power source, and resistance to current flow between the first and second transistors enables access to the back-up power source.

27. (New) The system of claim 21, further comprising:
a second switching circuit for enabling access to the primary power source, the second switching circuit comprising at least one transistor, wherein the threshold detector circuit is configured to cause the second switching circuit to enable access to the primary power source responsive to a voltage provided by the primary power source rising above the predetermined threshold.

28. (New) The system of claim 21, further comprising:
an inverter coupled between the inverting switch and the threshold detector circuit.

29. (New) The system of claim 21, wherein the first switching circuit comprises a second transistor coupled to the first transistor.

30. (New) The system of claim 29, wherein current flow between the first and second transistors terminates access to the back-up power source, and wherein resistance to current flow between the first and second transistors enables access to the back-up power source.